



The Nation's Center of Excellence
for Medical Chemical Defense

3100 Ricketts Point Rd, Aberdeen Proving Ground, Maryland 21010

The United States Army Medical Research Institute of Chemical Defense (USAMRICD)

- An Overview -

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Commander

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Web: <http://usamricd.apgea.army.mil>



Facebook: www.facebook.com/USAMRICD

UNCLASSIFIED

MISSION AND VISION

Mission

Discover and develop medical products and knowledge solutions against chemical threats through research, education & training, and consultation.

Vision

To strengthen our nation and the world by rendering chemical threats medically harmless.



USAMRICD SCIENTIFIC PROGRAMS AND CAPABILITIES

Analytical

- Diagnostics
- ADMET
- Forensics

Nerve Agent Countermeasures

- Reactivators
- Neuroprotectants
- Anticonvulsants
- Pretreatments

Knowledge Solutions

- Consultation
- Education
- Training

Toxicants

- Cyanide Interventions
- TIC Interventions
- BoNT Interventions
- HD Interventions
- Classified Agent Interventions
- Pulmonary Protections

Agent Mitigation

- Bioscavengers
- Decontamination

PROGRAMS & FIELDED PRODUCTS



M291 Decontaminating Kit



**TestMate®
Cholinesterase Kit**



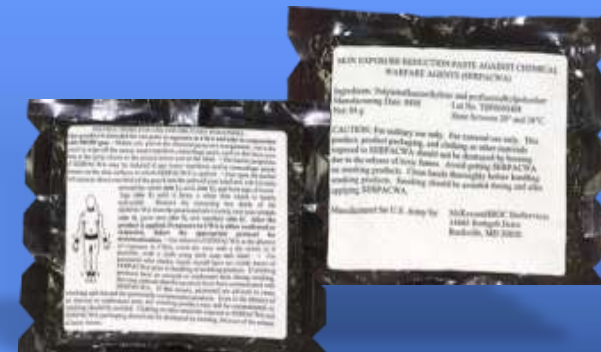
**Chemical Casualty Care
Reference Material**



Pyridostigmine



**Nerve Agent
Antidote Kit**



SERPACWA



**Convulsant Antidote Nerve
Agent (CANA)**



Multichambered Autoinjector

PRODUCTS IN ADVANCED DEVELOPMENT

- Advanced Anticonvulsant System (AAS)
 - Midazolam
- Bioscavenger (BSCAV)
 - Recombinant
 - Human Plasma Derived
- Improved Nerve Agent Treatment System (INATS)
 - MMB4
 - Licensure Expansion of Pyridostigmine beyond Soman
- Soman Nerve Agent Pretreatment, Pyridostigmine (SNAPP)
 - Post-Marketing Studies



EDUCATION/TRAINING

- **MCBC** - Medical Management of Chemical and Biological Casualties
- **FCBC** - Field Management of Chemical and Biological Casualties
- **HM-CBRNE** - Hospital Management of Chemical, Biological, Radiological, Nuclear, and Explosive Incidents
- Off Site Courses
- Webinars



COMMUNITY ENGAGEMENT (1 OF 2)

Science, Technology, Engineering, and Mathematics (STEM) Initiatives

- Gains in the Education of Mathematics and Sciences (GEMS) program
 - Program initiated in 2011 – have had 45-75 students over the last 2 years
- Science and Engineering Apprenticeship program (SEAP)
 - USAMRICD has had 10-19 students each summer since 1998
- Senior “Capstone Project” mentorship
 - USAMRICD has mentored 2-6 students annually
- College Qualified Leaders (CQL) program
 - USAMRICD has one student at this time



COMMUNITY ENGAGEMENT (2 OF 2)

Science, Technology, Engineering, and Mathematics (STEM) Initiatives cont.

- Oak Ridge Institute for Science and Education (ORISE) program
 - USAMRICD has ~60-70 ORISE students per year
- ORISE Collaborative Traveler program
 - The number of participants varies from year to year
- ORISE Knowledge Preservation program
 - Currently, USAMRICD has two in this program
- NRC Research Associateship program (RAP)
 - USAMRICD currently has 3 NRC postdoctoral students



MRICD FUTURE DIRECTIONS

- Enterprise/Core Capabilities
 - ADMET
 - Proteomics/Genomics
 - Imaging
 - BoNT Consortium
- Increase Collaborations
 - DoD Labs
 - Other Government Agencies and Departments
 - Academia
 - International



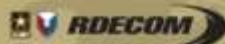


PARTNERING

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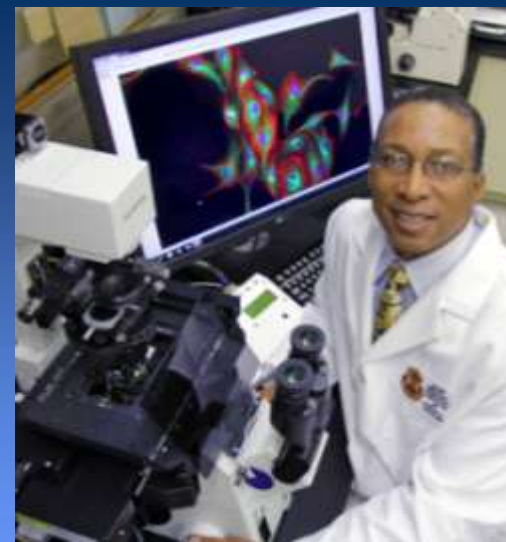
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Bundeswehr Institute of Pharmacology
and Toxicology



MRICD



The Nation's Center of Excellence for Medical Chemical Defense

RESEARCH

EDUCATION/TRAINING

CONSULTATION



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